



GB

GB

NAD HTR-1 UNIVERSAL REMOTE CONTROL

introduction	י
General	ö
Inserting & replacing batteries & back-up	ŝ
Key Backlighting	ŝ
Operating range	ŝ
Using the HTR-1	ö
Device keys6	ŝ
Status LED	7
Setting up Pre-programmed codes	7
By Library search	7
By Manufacturing ID code	3
Code Recall)
Learning remote commands	ð
Setting up Macros)
Reset to factory default settings	ı
Code listing table	2

USING THE NAD HTR-1 UNIVERSAL REMOTE CONTROL WITH THE NAD T761 AV RECEIVER

The NAD HTR-1 Universal Remote control packed with your NAD T761 AV receiver has been pre-configured to operate all controls. Besides operating the receiver, the HTR-1 can replace up to eight remote controls for different devices. It has a database of remote control commands built-in for a large range of different brands and devices. In case your particular brand or model isn't featured in the database, the HTR-1 can also "learn" remote commands from the original remote control of the device. Refer to the HTR-1 instruction manual on how to program.

The table below indicates the locations and functions available; the numbers refer to the drawing in the NAD HTR-1 manual. Refer to the T761 instruction manual for explanation of specific functions.

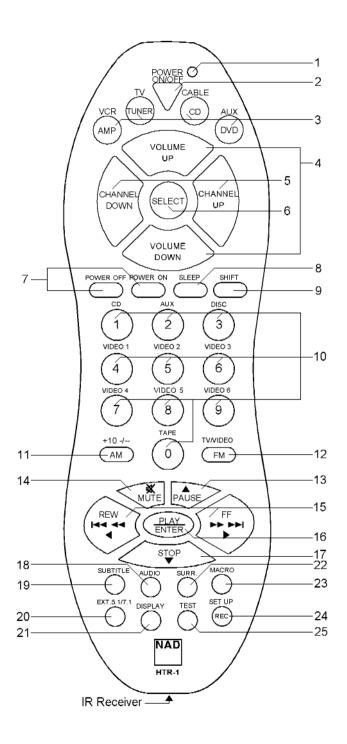
Make sure the "AMP" mode has been selected when using the HTR-1 Universal Remote Control to operate your receiver.

No. Key description 2 POWER ON/OFF 3 AMP (VCR), TUNER (TV), CD (CABLE), DVD (AUX) 4 VOLUME UP/DOWN 5 CHANNEL UP/DOWN 6 SELECT 7 POWER OFF & POWER ON 8 SLEEP 10 1 (CD), 2 (AUX), 3 (DISC),... ... 9 (VIDEO 6), 0 11 AM (+10 -/--) 12 FM (TV/VIDEO) 13 PAUSE 14 MUTE 15 **bb bbi b** & **44 i44 4** 16 PLAY/ENTER 17 STOP 18 AUDIO SUBTITLE 19 20 EXT 5.1/7.1 21 DISPLAY 22 SLIRR 23 MACRO 24 SETUP/REC

Power On/Off Select AMP for T761 Master Volume Up/Down Preset/Tune Up/Preset/Tune Down Preset/Tune mode Power Off & Power On Sleen Input select Select AM Select FM OSD Cursor Up Volume Mute OSD Cursor Right & Left Enter OSD Cursor Down Tone Control Dynamic Range Ext 5.1 Display Surround Mode Channel select

T761 function

Surround Test On/Off



INTRODUCTION

The NAD HTR-1 Universal Remote Control can replace up to eight different individual remote controls, offering command of the most important and often used controls, thus significantly reducing "remote control clutter": Amplifier, Tuner, CD, DVD, VCR, TV, Cable, Custom.

If the NAD HTR-1 came packed with an NAD product, such as an AV receiver, all commands will already have been programmed in and is ready for use with the product. Where appropriate, the correct generic remote control commands for other NAD products, such as CD players for instance, have also been programmed in.

The HTR-1 comes with a large database of remote control commands for other brands, making it easy to configure to suit the particular mix of brands and models in your system. The database contains remote control commands for over four hundred brands. In the unlikely case you are not able to find the remote control commands for a specific brand, the HTR-1 also allows you to "learn" remote commands from the original remote control so that that device can still be remotely operated with the NAD HTR-1.

GENERAL

Alkaline batteries are recommended for maximum operating life. Three AAA (R 03) batteries should be fitted in the battery compartment at the rear of the Remote Control handset. When replacing batteries, check that they have been put in the right way round, as indicated on the base of the battery compartment.

The keys on the HTR-1 are backlit for ease of operation in darkened environments. Backlighting is automatically activated as soon as any key is pressed. To preserve batteries, it switches itself off automatically five seconds after the last key press.

When you find that operating range and angle are rapidly decreasing and that the key backlighting is getting dimmer, it may be time to replace the batteries. The NAD HTR-1 has a non-volatile memory so that, even if the batteries are removed for a prolonged period of time, it will retain all settings and commands as programmed. The HTR-1 will operate up to a distance of 16ft (5m). Direct sunlight or very bright ambient lighting may affect the operating range and angle.

NOTE

There must be a clear line-of-sight path from the remote control to each of the devices' infrared receiver (usually located behind a display window on the front panel); if that path is obstructed, the remote control may work erratically or not at all.

USING THE NAD HTR-1

The HTR-1 will replicate the most common commands for the device selected. For instance, "CHANNEL UP" will advance preset or channel selection for either Tuner, TV or Cable device; but will move cursor up with DVD selected as device. Once the remote control has been configured to suit your system (refer to chapters "Setting up Preprogrammed Remote commands" and "Learning Remote Commands") it is ready for use. The numbers refer to the drawing.

The table below specifies what commands are available for all devices in the factory default setting. The devices Amp, Tuner, CD and DVD come standard with remote control commands suitable for most NAD remote controlled products.

NOTE

The key listing below specifies what each key will do from the factory default setting for the various devices. Refer to the original instruction manual for the devices in your system to check how these respond to specific commands.

Not all commands on the HTR-1 may be available for the devices it is used with or there may be commands not available on your specific device. The key listing below assumes factory default setting or settings from database but not remote commands learned from an original remote control

SELECTING WHICH DEVICE TO OPERATE

Each of the four device keys allows operation of two different devices, up to eight different devices can be controlled. The devices that can be controlled are labelled on the key itself and directly over it.

SELECTING PRIMARY DEVICES

To access one of the four primary devices (the ones as labelled on the key itself: AMP, TUNER, CD, DVD), simply press the required key.

Primary Device keys: AMP; TUNER; CD; DVD (No. 3).

SELECTING SECONDARY DEVICES

To access one of the secondary devices, first press the "SHIFT" key (No. 9) (STATUS LED, No. 1, lights up), and within the default time of 5 seconds, press the required device key (VCR, TV, CABLE, CUSTOM). The Device key will light up with Status LED briefly to confirm, after which both will extinguish.

Secondary Device keys: VCR; TV; CABLE; CUSTOM (No. 3).

After selecting a primary or secondary device by pressing the key(s) as described above, the other keys on the remote control will be set to operate the chosen device. For instance, with TUNER selected as device, the "CHANNEL UP" and "DOWN" keys (No. 5) will select the next higher, respectively next lower tuner preset station. With DVD selected as device, the same keys will move the DVD Menu cursor Up or Down.

When pressing a key, the selected Device key will flash to indicate a command is being transmitted. If the selected device key doesn't flash when pressing a key, it means that the key doesn't have a function for the device selected.

STATUS LED (NO.1)

This LED will light up to indicate status: Use of "SHIFT" key (No. 9) and Set-up mode. The LED will light up green for up to 5 seconds once the "SHIFT" key (No. 9) has been pressed. Within these 5 seconds, one of the four device keys (No. 3) can be pressed to switch the remote control to one of the secondary devices (VCR, TV, CABLE, CUSTOM). The Device key will light up with Status LED briefly to confirm, after which both will extinguish. The LED will extinguish within 5 seconds if no other key is pressed or if "SHIFT" is pressed again.

The LED will light up red to enter set-up mode (pressing "POWER ON/OFF" No. 2; and "MUTE" No. 14 simultaneously for two seconds). Refer to chapters "Setting up Pre-programmed Codes" and "Learning Remote Commands" for additional information.

SETTING UP PRE-PROGRAMMED CODES

The HTR-1 has an extensive library built-in for pre-programmed remote control commands for many different brands. By entering the device code for the particular device and brand, all major functions for that device can be controlled with the HTR-1.

There are two ways of setting up the remote control for pre-programmed remote commands:

- By using the LIBRARY SEARCH routine
- By entering the MANUFACTURER ID CODE

SET-UP BY LIBRARY SEARCH

- 1 Switch on your device manually or with your original remote control.
- 2 Press the POWER ON/OFF (No. 2) and MUTE keys (No. 14) together for approximately 2 seconds until STATUS LED (No.1) stavs red.
- 3 Press the required DEVICE key (No. 3); the DEVICE key will light up.
- 4 Press the POWER ON/OFF key (No. 2) and hold down for 2 seconds then release for 2 seconds. Repeat this process until your device switches off or to Stand-by. NOTE: If you accidentally skipped a code that turned your device off, you can go one code back by pressing the MUTE key (No. 14). If there is no Power On/Off code for a particular device, the HTR-1 will transmit a "Play" command instead.
- **5** After your device has switched off, press the lit DEVICE Key once to stop the LIBRARY SEARCH.
- 6 Try the appropriate keys to see if the corresponding function for your device work (in case your device switched off completely, it may be necessary to manually power it up again).
 - If find you find that not all the keys appropriate for your device operate correctly, press the DEVICE Key
 for 1 second; the DEVICE Key will flash once. Repeat step 4 to find the set of remote commands that
 best operates your device. Once found, proceed with step 7 to store.
- 7 If you find all the major functions work correctly with your device, press the DEVICE Key (No.3) 3 times until the DEVICE Key and STATUS LED (No. 1) go out. The code is now stored.

Example

You wish to set up the remote control to operate your TV:

- Switch on your television.
- 2 Press the POWER ON/OFF (No. 2) and MUTE keys (No. 14) together for approximately 2 seconds until STATUS LED (No.1) stays red.
- 3 Press SHIFT (No. 9); the STATUS LED changes to green. Press the TUNER/TV device key (No.3). The STATUS LED will change to red again.
- **4** Press the POWER ON/OFF key (No. 2) and hold down for 2 seconds then release for 2 seconds. Repeat this process until the TV switches off or switches to Stand–by.
- 5 Press the lit DEVICE KEY once, and now try the other function keys on the HTR-1. Switch the TV back on (if it switched off completely, it may be necessary to this manually) and try out all the keys appropriate for your TV; such as Volume Up/Down; Channel Up/Down; Mute, etc. (refer also to table).
 - If you find not all keys operate your TV correctly, press the DEVICE Key for 1 second; the DEVICE Key will
 flash once. Repeat step 4 until you find the set of remote commands that best operates your TV. Once
 found, proceed with step 6 to store.
- 6 If all major functions work, press the TUNER/TV key 3 times; The TUNER/TV device key and STATUS LED will extinguish. The code is now stored and the remote control is ready for use with the TV.

 $When you reach the end of the {\it library}, {\it The STATUS LED will flash twice per second and the set up mode is cancelled}.$

ENTERING MANUFACTURER ID CODE

Instead of searching the library, you can also enter a Manufacturer ID code directly for your brand and model.

In the code listing table, look up the device brand name to find the correct code for your brand. Switch on your device manually or with your original remote control.

- 1 Press the POWER ON/OFF (No. 2) and MUTE keys (No. 14) together for approximately 2 seconds until STATUS LED (No.1) stays red.
- 2 Press the required DEVICE key (No.3); the DEVICE key will light up.
- 3 Using the numeric keys (No.10); enter the 4-digit Manufacturer ID code from the code list.
- 4 Again using the numeric key-pad (No. 10):

Press 1 to set-up a TUNER & TV;

Press 2 to set-up an AMP & VCR:

Press 3 to set-up a CD & CABLE or Satellite receiver.

Press 4 to set up a DVD orif you are programming any other devices (CUSTOM).

If the entered code is correct, the STATUS LED will flash once. If the code is wrong, the STATUS LED will flash twice

- 5 It is quite common for a brand to have various sets of remote control commands. In order to find the correct set of remote control commands for your particular model, you will need to search within the manufacturer's ID code for the correct device code:
 - Press the POWER ON/OFF key and hold down for 2 seconds then release for 2 seconds, repeat this process
 until your device switches off (or switches to Stand-by). NB: If you accidentally skipped a code that turned
 your device off, you can go one code back by pressing the MUTE key.
- 6 Press the lit DEVICE KEY once and now try out the other function keys on the HTR-1.
 - If you find not all keys appropriate for the device operate correctly, press the DEVICE Key for 1 second;
 the DEVICE Key will flash once. Repeat step 6 to find the set of remote commands that best operates your device. Once found, proceed with step 8 to store.
- 7 When you have found a suitable set of remote control commands, press the DEVICE Key 3 times until the DEVICE Key and STATUS LED go out. The code is now stored.

Example

You wish to set up the HTR-1 to operate your Philips TV:

- 1 Look up the Manufacturer ID code for Philips (which is 3232).
- 2 Press the POWER ON/OFF (No. 2) and MUTE keys (No. 14) together for approximately 2 seconds until STATUS LED (No.1) stays red. Press SHIFT (No. 9); the STATUS LED changes to green. Press the TUNER/TV device key (No.3). The STATUS LED will change to red again.
- 3 Using the numeric keys (No.10); enter 3232 (Philips' Manufacturer ID code).
- 4 Again using the numeric key-pad (No. 10), Press 1. The STATUS LED will flash once (if the code is wrong, the STATUS LED will flash twice).
- 5 Philips has many different sets of remote commands. In order to find the correct set of remote control commands for your particular model, you will need to search within the Philips' ID code:
 - Press the POWER ON/OFF key and hold down for 2 seconds then release for 2 seconds, repeat this process
 until your device switches off (or switches to Stand-by). NB: If you accidentally skipped a code that turned
 your device off, you can go one code back by pressing the MUTE key.
- 6 Press the lit DEVICE KEY once and now try out the other function keys on the HTR-1.
 - You mayfind that not all keys device operate the TV correctly; press the DEVICE Key for 1 second; the DEVICE
 Key will flash once. The second set that turns off your TV does operate all major functions correctly: Proceed
 to the next step to store.
- 7 Press the DEVICE Key 3 times until the DEVICE Key and STATUS LED go out. The code is now stored and the HTR-1 is ready for use with your Philips TV.

CODE RECALL FUNCTION

The Code Recall function allows you to look up the exact code specific for your device's brand and model. Note this is not the manufacturer IC code, but the specific device code that operates your device; this is a 5-digit number.

- 1 Press the POWER ON/OFF (No. 2) and MUTE keys (No. 14) together for approximately 2 seconds until STATUS LFD (No.1) stavs red.
- 2 Press the required DEVICE key (No.3); the DEVICE key will light up.
- 3 Using the numeric key-pad (No. 10) engage Code Recall Mode:

Press 88881 to check the code for a Tuner.

Press 88882 to check the code for an Amp.

Press 88883 to check the code for a CD player.

Press 88884 to check the code for a DVD player.

Press 88885 to check the code for a TV.

Press 88886 to check the code for a VCR.

Press 88887 to check the code for a Cable or Satellite receiver.

Press 88888 to check the code for any other devices (CUSTOM).

If the entered code is correct, the STATUS LED will flash once. If the code is wrong, the STATUS LED will flash twice.

- 4 To find out the number for the first digit of the code, press 1 on the Numeric keypad (No.10) and count the number of times the DEVICE flashes. To find the 2nd digit of your code press 2, for the 3rd digit press 3, for the 4th digit press 4 and for the 5th digit press 5 and each time count the number of times the DEVICE key flashes. NOTE: IF the DEVICE key doesn't flash, the digit's number is zero.
- 5 Press the DEVICE key to exit Code Recall mode. The DEVICE key will extinguish.

In case the HTR-1 gets accidentally re-programmed, it is advisable to note down in the table below which exact codes were set up to operate your devices.

Device	code	Device	code
AMP		VCR	
TUNER		TV	
CD		CABLE	
DVD		CUSTOM	

You can use the recalled device code to enter it directly into the HTR-1; this voids the need of having to go through each separate device within a manufacturer ID code:

- 1 Press the POWER ON/OFF (No. 2) and MUTE keys (No. 14) together for approximately 2 seconds until STATUS LED (No.1) stays red.
- 2 Press the required DEVICE key (No.3); the DEVICE key will light up.
- 3 Using the numeric keys (No.10); enter the 5-digit device code as found using Code Recall Function. If the entered code is correct, the STATUS LED will flash once. If the code is wrong, the STATUS LED will flash twice.
- 4 With the correct code entered, press the DEVICE Key 3 times until the DEVICE Key and STATUS LED go out. The code is now stored.

LEARNING REMOTE COMMANDS

The HTR-1 allows you to learn commands within already set-up devices. This way, you can add a desired specific function for your device to the selected pre-programmed set of remote commands, by learning that command into the required key for that device. In case none of the pre-programmed set of remote commands are suitable for your device, you can let the HTR-1 learn the remote commands for the device.

You can over-write already learned commands or commands from the pre-programmed library; this does not affect the other commands already available for the selected device.

NOTE

The NAD HTR-1 can only learn infrared commands. It is not compatible with UHF and Ultrasonic remote controls. There are some infrared remote controls that use encoding methods, which the HTR-1 cannot learn. At least 104 commands can be learned.

No remote commands can be learned into the DEVICE keys (No. 3) and SHIFT key (No. 9).

To learn remote commands from the original remote control into the NAD HTR-1:

- 1 Position the original remote control 3 to 5 cm away from the HTR-1's Infrared receiver, located at the bottom of the remote control (see drawing), with the original's remote transmission window or LED (usually at the top) pointing towards to the HTR-1's Infrared receiver.
- 2 Press the POWER ON/OFF (No. 2) and MUTE keys (No. 14) together for approximately 2 seconds until STATUS LED (No.1) stavs red.
- 3 Press the required DEVICE key (No.3); the DEVICE key will light up.
- 4 Using the numeric key-pad (No. 10) engage Learning Mode:

Press 55551 to learn remote commands for TUNER DEVICE key.

Press 55552 to learn remote commands for AMP DEVICE key.

riess 55553 to learn remote commands for CD DEVICE key.

Press 55554 to learn remote commands for DVD DEVICE key.

Press 55555 to learn remote commands for TV DEVICE key.

Press 55556 to learn remote commands for VCR DEVICE key.

Press 55557 to learn remote commands for CABLE DEVICE key.

Press 55558 to learn remote commands for CLISTOM DEVICE key

If the entered code is correct, the STATUS LED will flash once. If the code is wrong, the STATUS LED will flash twice.

- 5 Press and release the function key on the HTR-1, which you want to duplicate/learn a similar function from the original remote into; the DEVICE key flashes once.
- 6 Press and hold down the function key on the original remote. When the HTR-1 has finished copying the code, the STATUS LED will then flash once. Release the key on the original remote. If the STATUS LED flashes twice, an error has occurred in the learning process; repeat the learning process from step 5 onwards.
- 7 To program the next function key for the same device repeat steps 5-6.
- 8 When you have finished programming the various commands for the selected device, press the DEVICE key. The STATUS LED and DEVICE will extinguish. The remote commands have now been learned and stored, the HTR-1 is ready to be used with the device.

NOTE

If no key is pressed for over 10 seconds, the HTR-1 will switch back from learning mode to normal use mode.

SETTING UP AND USING MACRO FUNCTION

The Macro function allows you to send up to 6 remote commands with just one key press. This can be useful, for example to switch on your AV receiver, TV and DVD player, select the DVD input on the receiver and engage the DVD Play function with a single key press.

For each of the 8 devices, a Macro function can be set up:

- 1 Press the POWER ON/OFF (No. 2) and MUTE keys (No. 14) together for approximately 2 seconds until STATUS LED (No.1) stays red.
- 2 Press the required DEVICE key (No.3); the DEVICE key will light up.
- 3 Using the numeric key-pad (No. 10) engage Macro Setup Mode:

Press 77771 to record Macros for TUNER DEVICE key.

Press 77772 to record Macros for AMP DEVICE key.

Press 77773 to record Macros for CD DEVICE key.

Press 77774 to record Macros for DVD DEVICE key. Press 77775 to record Macros for TV DEVICE key.

Press 77776 to record Macros for VCR DEVICE key

Press 77777 to record Macros for CABLE DEVICE key.

Press 77778 to record Macros for CUSTOM DEVICE key.

If the entered code is correct, the STATUS LED will flash once. If the code is wrong, the STATUS LED will flash

- 4 Record your Macro by selecting the functions you wish to carry out when Macro is selected, just as if you were using the remote control. You can switch devices to have remote commands from other devices within the same Macro.
- 5 Press the Macro key (No. 23) to store the Macro. The STATUS LED and DEVICE key will go out and the Macro is programmed.

NOTE

Some devices may not be capable in executing remote commands in rapid succession. When recording your macro, this problem can be avoided by alternating each commands for the various devices, see example below.



Example

With just pressing Macro for AMP as device, you wish to switch on your AV receiver, TV and DVD player; select the Video 1 input on the receiver and activate Play on the DVD player.

- 1 Press the POWER ON/OFF (No. 2) and MUTE keys (No. 14) together for approximately 2 seconds until STATUS LED (No.1) stavs red.
- 2 Press the required AMP DEVICE key (No.3); the AMP key will light up.
- 3 Using the numeric key-pad (No. 10) engage Macro Setup Mode for AMP Device: Press 77772. The STATUS LED will flash once. If the code is wrong, the STATUS LED will flash twice.
- 4 Record the Macro by selecting the functions:
 - Press POWER ON/OFF (No.2) (command for switching on AV receiver).
 - Press SHIFT (No. 9); the STATUS LED changes to green. Press the TUNER/TV device key (No.3). The STATUS LED will change to red again. Press POWER ON/OFF (command for switching on TV).
 - Press DVD Device key; press POWER ON/OFF (command for switching on DVD player).
 - Press AMP Device key; press VIDEO 1 (inside No. 10) (command for switching AV receiver to Video 1 input).
 - Press DVD Device key; press PLAY/ENTER (No. 16) (command for activating Play on DVD player.
- 5 Press the Macro key (No. 23) to store the Macro. The STATUS LED and DEVICE key will go out and the Macro is programmed.

To play back a Macro, select the required device and press Macro. The macro is now executed, for each remote command send in succession, the corresponding DEVICE key will light up briefly.

NOTE

Set-up mode is automatically cancelled if no key is pressed for 15 seconds.

RESET TO FACTORY DEFAULT SETTINGS

Sometimes it may be necessary to reset the HTR-1 to its factory default settings, for instance, if you change many components in your system or do not recall how keys were programmed.

TO RESET THE NAD HTR-1

Press the POWER ON/OFF (No. 2) and SELECT keys (No. 6) together for approximately 5 seconds until STATUS LED (no.1) flashes twice.

NOTE

When you reset the remote to factory default settings, you will LOOSE ALL SETTINGS AND LEARNED REMOTE COMMANDS; ONCE ACTIVATED, RESET CAN NOT BE UNDONE!

(Shift + DVD)						1		1				1				1		1		1		1			
S)																									
(Shift + CD) CABLE	POWER ON/OFF			0		TV or CAB VOL +	TV or CAB VOL -	CAB PROGRAM +	CAB PROGRAM -	CAB MENU		1		SHIFT	-	2	m	4	ιΩ	9	7	00	o	0	
(Shift + TUNER) TV	POWER ON/OFF		TUNER			TV VOLUME +	TV VOLUME -	PROGRAM +	PROGRAM -	C/P,MENU				SHIFT	-	2	m	4	70	9	7	00	6	0	
(Shift + AMP) VCR	POWER ON/OFF	AMP				TV VOLUME +	TV VOLUME -	VCR PROGRAM +	VCR PROGRAM -	VCR MENU				SHIFT	-	2	m	4	2	9	7	00	6	0	
(NAD)	POWER ON/OFF				DVD	CURSOR UP	CURSOR DOWN	CURSOR RIGHT	CURSOR LEFT	ENTER			ZOOM		-	2	8	4	2	9	7	00	6	0	
(NAD)	POWER ON/OFF			0							POWER OFF	POWER ON			_	2	3	4	2	9	7	∞	o	0	
(NAD) TUNER	POWER ON/OFF		TONER			VOLUME+	VOLUME-	PRESET+	PRESET-	PRESET/TUNE	POWER OFF	POWER ON			PRESET 1	PRESET 2	PRESET 3	PRESET 4	PRESET 5	PRESET 6	PRESET 7	PRESET 8	PRESET 9	PRESET 0	
(NAD) AMP	POWER OWOFF	AMP				VOLUME+	VOLUME-	PRESET+	PRESET-	PRESET/TUNE (ENTER)	POWER OFF	POWER ON	SLEEP		8	AUX	DISC (DVD)	VIDEO 1	VIDEO 2	VIDEO 3	VIDEO 4	VIDEO 5	VIDEO 6	TAPE1	
Remote	POWER ON/OFF	AMP / VCR	TUNER / TV	CD / CABLE	DVD / CUSTOM	VOLUME+	VOLUME-	CHANNEL+	CHANNEL-	SELECT	POWER OFF	POWER ON	SLEEP	SHIF	1/CD	2 / AUX	3 / DISC	4 / VIDEO 1	5 / VIDEO 2	6 / VIDEO 3	7 / VIDE0 4	8 / VIDEO 5	9 / VIDEO 6	0 / TAPE	
Drawing No.	2	т				4		2		9	7		œ	6	10										

		,	,		,		,		,				,								
SAT -/		dN	TV or CAB MUTE	LEFT	RIGHT		DOWN		RECALL					MENU STORE							
-	TV/VIDEO		TV MUTE											C/P MENU STORE							
VCR [-/-]		PAUSE	TV MUTE	REW	Ш	PLAY	STOP							RECORD							
TITLE	MENU	PAUSE	RESUME	SKIP-	SKIP+	PLAY	STOP	AUDIO	SUBTITLE	ANGLE	DISPLAY	RANDOM		SETUP	RETURN						
+10		PAUSE		SKIP-	SKIP+	PLAY	STOP			PROGRAM	TIME	RANDOM			REPEAT						
AM	M	,	MUTE	TUNE	TUNE+	ENTER					BANK										
AM	FM	CURSOR UP	MUTE	CURSOR LEFT	CURSOR RIGHT	SELECT / ENTER	CURSOR DOWN	TONE CONTROL	DYNAMIC RANGE	EXT. 5.1	DISPLAY	SURR.MODE		CHANNEL SELECT	SURR.TEST						
AM / +10 -/	FM / TV/VIDEO	PAUSE	MUTE	SKIP- / REW	SKIP+ / FF	PLAY / ENTER	STOP	AUDIO	SUBTITLE	EXT.5.1/7.1	DISPLAY	SURR.	MACRO	SET UP / REC	TEST						
=	12	13	14	15		16	17	18	19	20	21	22	23	24	25						

Manufacturer	ID code	Manufacturer	ID code	Manufacturer	ID code	
ACURA	4310	DUAL-TEC	2211	JERROLD	2430	
ADMIRAL	2001	DUMONT	2212	JOHNSON	2431	
AGASHI	2001	DUMONT-FINLUX	2213	JOHANSSON	2431	
AIWA	2001	DYNATECH	2214	JVC	2432	
AKAI	2002	ECHOSTAR	2220	KAISER	2433	
AKKAI	4334	EDISON	2220	KAISUI	2433	
AKURA	4334	ELBE	2221	KAPSCH	4301	
AKUSTIK	4340	ELBIT ELCIT	2222	KARCHER KARDON	2434 4344	
ALBA	2003	-				
ALBIRAL	2004	ELECTRO TEC	4430	KATHREIN	2440	
ALLORGAN	4234	ELECTRONIC	4430	KENDO	2441	
AMSTRAD	2010	ELECTRONSK	4430	KENNEDY	2442	
ANITSCH	2011	ELMAN	2224	KENWOOD	2443	
ANITECH	2011	ELIN	2224	KORTING	2444	
ANKARO	2012	ELTA	2230	KRIESLER	3000	
ARC EN CIEL	2013	ELTASAT	2231	KTV	3001	
ARCON	2014	EMERSON	2232	КҮОТО	3001	
ARISTONA	2020	ERRES	2233	LENCO	3002	
ARTHUR MARTIN	2021	ESTEL	2233	LENOIR	3003	
ASA	2022	EUROCOM	2234	LEYCO	3002	
ASTRA	2023	EUROPHON	2234	LLOYD	3004	
ASUKA	4312	EXPERT	4303	LOEWE	3010	
ASWO	4341	FENNER	4422	LOEWE OPTA	3011	
ATLANTIC	2024	FERGUSON	2240	LOGIK	3012	
AUDIOSONIC	2030	FIDELITY	2241	LUMA	3013	
AUDIOTON	4240	FILMNET CABLECRYPT	4322	LUXMAN	4400	
AUSIND	2031	FILSAI	4422	LUXOR	3014	
AUTOVOX	2031	FINLANDIA	2242	LXI	3020	
BAIRD	2032	FINLUX	2242	MACAB	3021	
BARCO	2040	FIRST LINE	2244	MAGAI	3022	
BARCOM	2040	FISCHER	2244	MAGNADYNE	3023	
BASIC LINE	2041	FISHER	2244	MAGNFON	3024	
BAUR	4304	FORGESTONE	2300	MAGNASONIC	3030	
BAZIN	2042	FORMENTI	2301	MAGNAVOX	3031	
BEKO	2042	FORMENTI-PHOENIX	2301	MANHATTAN	4321	
BLAUPUNKT	2043	FORTRESS	2302	MARANTZ	3032	
BOOTS	4313	FRACARRO	2303	MASPRO	3033	
BPL	4314	FRONTECH	2304	MATSUI	3034	
BRANDT	2044	FTE	2310	MATSUSHITA	4233	
BRANDT ELECTRONIQUE	2044	FUBA	2311	MAXIMAL	3040	
BRION VEGA	2100	FUJITSH	2312	McMICHAEL	3041	
BRUNS	2101	FUNAI	2312	M ELECTRONIC	4300	
BSR	2102	GALERIA	2313	MEMOREX	3042	
BT SATELLITE	4332	GBC	2313	METZ	3043	
BUSH	2103	GE	2314	MGA	3044	
CABLETIME	4103	GEC	2320	MINERVA	3100	
CAMBRIDGE	2104	GELOSO	2321	MINOLTA	3101	
	2104	GENEXXA	2321	MISSON		
CAMBRIDGE ARD200					4401	
CAPEHART	2111	GIUCAR RECORD	2323	MISTRAL	3102	
CENTURY	2112	GOLDSTAR	2324	MITSUBISHI	3103	
CGE	2113	GOODMANS	2330	MIVAR	3104	
CHAPARRAL	2114	GORENJE	2331	MNARTT	3104	
CIHAN	2120	GRAETZ	2332	MTC	3110	
CINEMA	2120	GRANADA	2333	MULTISTAR	3111	
CLARIVOX	2121	GRANDIN	2334	MULTITECH	3112	
CLAYTON	2121	GRUNDIG	2334	MURPHY	3113	
COMTEL	2122	HANSEATIC	2341	NAD	4430	
CONDOR	2123	HANTAREX	2342	NAGOMA	3114	
CONNEXIONS	2124	HARMAN	4343	NAONIS	3114	
CONTEC	2130	HEMMER MANN	2343	NATIONAL	3120	
CONTINENTAL	2131	HEXA	4343	NEC	3121	
CONTINENTAL EDISON	2131	HIFIVOX	2344	NECKERMANN	3122	
CRAIG	2132	HIGASHI	4423	NEI	3123	
CROSLEY	2133	HIGH PERFORMANCE	2400	NEIRU	3124	
CROWN	2133	HINARI	2400	NEWTECH	4241	
	2134	HIRSCHMANN	2401	NIKKAI	3130	
CTC CLATRONIC						
CURTISMATHES	2141	HITACHI	2403	NOBLIKO	3131	
DAEWOO	2142	HYPER	2404	NOGAMATIC	3132	
DAYTRON	2143	IMPERIAL	2410	NOKIA	3134	
DECCA	2144	INGELEN	2411	NONAME	4402	
DEGRAAF	2200	INGERSOL	2412	NORDMENDS	3140	
DENON	4342	INNO HIT	2413	NORFOLK	3140	
DESMET	4342	INTERFUNK	2414	NORSAT	3141	
DISKXPRESS	2201	INTERVISION	2420	OCEANIC	3142	
DIXI	2202	IRRADIO	2420	OKANO	4403	
DORIC	4244	ITT	2421	ONKYO	4404	
	2203	ITT-NOKIA	2422	ONCEAS	3143	
	2203	HITIONA	4744	OINCEAS	7177	
DRAKE DYNATRON	2204	JEEMON	2423	OPTONICA	3144	

OSAKI 3201 SICATE	Manufacturer	ID code	Manufacturer	ID code	Manufacturer I	D code
OSON 3203 SEMENS 3431 WHITE WESTINISTIC CABLE 430	USVKI	3201	SICATEI	3/137	WEGAVOY	1201
OSUNE 2023 SIPA						
DITTO VERSAND 3204 SIVA 3440 WREAST 4211 PACE 3211 SINCER 3441 MMERNIT 4212 PACE 3211 SINCER 3441 MMERNIT 4212 PACE 3213 SINCER 3441 WOLSEY 4213 PALE 3213 SINTACK 3443 WOLSEY 4213 PALE 3213 SINTACK 3443 WOLSEY 4213 PALE 3213 SINTACK 4000 ZAMUSSI 4211 PALLADIUM 4410 SOLANDX 4000 ZAMUSSI 4221 PALLADIUM 4210 SONORIO 3444 ZEMOFR 4222 PALLADIUM 3220 SONORIO 3444 ZEMOFR 4222 PALLADIUM 3221 SONORIO 3444 ZEMOFR 4222 PALLADIUM 3222 SOLY 4001 ZEMIT 4224 PALLE CHEMA 3222 SOLY 4420 ZOPPAS 4230 PALLE CHEMA 3222 SOLY 4420 ZOPPAS 4230 PALLE CHEMA 3222 SOLY 4420 ZOPPAS 4230 PALLE CHEMA 3222 SIRON 4022 PALLADIUM 4224 SIAPASH 4000 PHILEO 3231 SIRON 4003 PHILEO 3231 SIRON 4003 PHILEO 3231 SIRON 4001 PHILEO 3232 SIRON 4001 PHILEO 3231 SIRON 4001 PHILEO 3234 SILDER 4420 PHORE 3240 SIV 4012 PHORE 3241 SILDER 4420 PRORE 3241 SILDER 4420 PRORE 3244 SILDER 4420 PRORE 3244 SILDER 4420 PRORE 3244 SILDER 4420 PRORE 3244 SILDER 4420 PRORE 3241 SILDER 442						
PT ACTRON 3210 SUKPR 3441 WMTENTIT, 4712						
PACE 3211 SMORER 3441 WIS 4212 PAEL PAEL SSTERS 3212 SMOREC 3441 WIDSEY 4213 PAEL SMILONIM 3444 WIDSEY 4213 PAEL SMILONIM 3444 VOKO 4220 PAEL SMILONIM 3444 VOKO 4220 PAEL SMILONIM 3444 VOKO 4220 PAEL SMILONIM 3440 VOKO 4220 PAEL SMILONIM 3420 SMILONIM 3420 ZMINOR 4222 PAEL SMILONIM 3222 SONDLOR 3444 ZMINOR 4222 PAEL SMILONIM 3222 SONDLOR 4320 ZOPPAS 4220 PAEL SMILONIM 4222 PAEL MOST SMILONIM 4220 PAEL MOST						
PACE MSS SERIES 3212 SNOTEC 4414 VAMAH 4214 PALCOM 3214 SNUDYNE 3444 VAMAH 4214 PALCOM 3214 SNUDYNE 3444 VAMAH 4214 PALCOM 3214 SNUDYNE 3444 VAMAH 4214 VAMAH 4224 VAMAH 4214 VAMAH 4224 VAMAH 4214 VAMAH 4224						
PAEL 2213 SNTRACK 3443 VOKO 4220						
PALCOM						
PALADIUM						
PALSAT			SOLAVOX		ZANUSSI	
PATHE						
PATHE						
PATHEMARCON 3223 STANDARD 4242 PAUSA 3213 STARCOM 4232 PENDIX 3224 STARSAT 4002 PERDIC 3231 STERN 4004 PHILICO 3231 STERN 4001 PHONIX 3233 ST 4011 PHONIX 3233 ST 4011 PHONIX 3234 STUDER 4420 PIONER 2240 STV 4012 PMG 4411 SURKCA 4013 PORTLAND 3241 SURKCA 4013 PRANDONI-PRINCE 3242 SYLVANNA 4014 PREMIER 3243 SYMPHONIC 4020 PRINCE 3244 TAA BLETRO 4421 PROFEX 3300 TANDRERG 4021 PROLINE 3300 TANDRERG 4021 PROLINE 3300 TANDRERG 4021 PROCECT 3301 TASHIKO 4023 PROTECH 3302 TATUNG 4024 PYE 3303 TEAC 4030 QUASTA 3311 TECHNICS 4331 QUASAR 3310 TECHNICS 4331 QUASAR 3311 TELEVINA 4034 RADOMARELII 3311 TELEVINA 4034 RADOMARELII 3311 TELEVINA 4034 RADOMARELII 3311 TELEVINA 4040 RADOMARELII 3313 TELEVINEN 4041 RADOX 3314 TELEVINEN 4041 RADOX 3314 TELEVINEN 4041 REDIFFUSION 3332 TELEVINEN 4044 RCA 3322 TELEVIDON 4302 RCA 3323 TELEVIDON 4302 RCA 3324 TENSAL 4101 REDIFFUSION 3333 TELEVINEN 4044 RCA 3323 TELEVINEN 4044 RCA 3323 TELEVINEN 4044 RCA 3324 TENSAL 4101 REDIFFUSION 3333 TELEVINEN 4044 RCA 3323 TELEVINEN 4044 RCA 3324 TENSAL 4100 REX 3334 TELEVINEN 4044 RCA 3325 TELEVINEN 4044 RCA 3326 TELEVINEN 4100 RCA 3327 TENSAL 4100 RCA 3328 TELEVINEN 4100 RCA 3328 TELEVINEN 4100 RCA 3328 TELEVINEN 4100 RCA 3328 TELEVINEN			SONY		ZENITH	4224
PRINAM PRINAM PENTAM PENTAM PENTAM PENTAM PHURD	PATHE'CINEMA			4320		
PENTAX 3224 STARSAT 4002 PERDIO 3230 STELLA 4003 PHILEO 3231 STERN 4004 PHILEO 3231 STERN 4004 PHILEO 3231 STERN 4004 PHILEO 3231 STERN 4010 PHILEO 3233 STS 4011 PHONDLA 3234 STUDER 4420 PHONDLA 3234 STUDER 4420 PHONDLA 3234 STUDER 4420 PHONDLA 3234 STUDER 4420 PHORER 3240 STV 4012 PMG 4411 SUNKAL 4013 PRANDON-PRINCE 3241 SYLVANIA 4014 PREMIER 3243 SYMPHONIC 4020 PRINCE 3244 SYMPHONIC 4020 PRINCE 3244 THA LECTRO 4421 PROPER 3300 TANDEBRG 4021 PROCED 3300 TANDEBRG 4021 PROCED 3301 TASHIKO 4023 PROTECH 3302 TANDEBRG 4024 PYE 3303 TEAC 4030 QUARTZ 3304 TEC 4031 QUARTZ 3301 TECHNISAT 4032 RADMOR 4412 TELEAVIA 4034 RADMORELLI 3311 TECHNISAT 4032 RADMOR 4412 TELEAVIA 4034 RADMORETTE 4333 TELEFUNKEN 4041 RADMORETTE 3331 TELEFUNKEN 4041 RADMORETTE 4333 TELEFUNKEN 4041 RADMORE	PATHE'MARCONI	3223	STANDARD	4242		
PERDIO 3220 STELLA 4003 PHILCO 3221 STERN 4004 PHILE'S 3222 STRONG 4010 PHOENIX 3233 STERN 4001 PHOENIX 3233 STS 4011 PHONOLA 3234 STUDER 4420 PHONER 3240 STV 4012 PMG 4411 SUNKAL 4013 PRANDON-PRINCE 3242 SYLVANIA 4014 PREMER 3243 SYMPHONIC 4020 PRINCE 3243 SYMPHONIC 4020 PRINCE 3244 THA ELECTRO 421 PROMER 3300 TANDEBER 4021 PROLINE 3300 TANDEBER 4021 PROLINE 3301 TANDY 4022 PROLINE 3301 TANDY 4022 PROLINE 3301 TANDY 4022 PROLINE 3302 TANDY 4023 PROTECH 3302 TATUNG 4024 PYE 3303 TEAC 4030 QUARTZ 3304 TECHNICS 4331 QUASTA 3311 TECHNICS 4331 QUELLE 3311 TECHNISA 4033 RADIOLA 3312 TENNIKA 4034 RADIOMARELL 3313 TELECHMA 4041 RADIOMETE 4333 TELEPUNKEN 4041 RADIOMETE 3324 TELEPUNKEN 4041 RADIOMETE 4333 TELEPUNKEN 4041 RADIOMETE 4343 TELEPUNKEN 4041 RADIOMETE 4344 RADI	PAUSA	3213	STARCOM	4232		
PHILICO 3231 STERN 4004 PHILIPS 3232 STRONG 4010 PHICHNX 3233 STS 4011 PHICHNX 3233 STUDER 4420 PHICHNX 3234 STUDER 4420 PHICHNX 4013 MICHNY 4012 PMG 4411 SUNIKAI 4013 PRANDONI-PRINCE 3241 SUPERTICH 4013 PRANDONI-PRINCE 3242 SYLVANIA 4014 PREMIER 3243 SYMPHONIC 4020 PRINCE 3244 THA ELECTRO 4421 PROFEX 3300 TANDBERG 4021 PROLINE 3300 TANDBERG 4021 PROLINE 3300 TANDBERG 4021 PROLINE 3300 TANDBERG 4021 PROLINE 3300 TANDW 4022 PROSAT 3301 TASHIKO 4023 PROTECH 3302 TATUNG 4024 PYE 3303 TEAC 4030 QUARTZ 3304 TEC 4031 QUASAR 3310 TECHNISCA 4031 QUELLE 3311 TECHNISCA 4032 RADMORA 4412 TELEAVIA 4034 RADMOMARELLI 3312 TEKINKA 4033 RADMORA 4412 TELEAVIA 4034 RADMOMARELLI 3313 TELECOM 4040 RADMOMETI 4333 TELECOM 4040 RADMOMETI 4333 TELECOM 4040 RADMOMETI 4333 TELECOM 4040 RADMOMETI 4332 TELECOM 4040 RADMOMETI 4332 TELECOM 4040 RADMOMETI 4333 TELECOM 4040 RADMOMETI 4332 TELECOM 4040 RADMOMETI 4333 TELECOM 4040 RADMOMETI 4340 TELEONI 4040 RADMOMETI 4340 TELEONI 4040 RADMOMETI 4040 RADMOMETI 40	PENTAX	3224	STARSAT	4002		
PHILIPS 3222 STRONG 4010	PERDIO	3230	STELLA	4003		
PHOENIX 3234 STS 4011 PHONOLA 3234 STUDER 4420 PHONOLA 3234 STV 4012 PHONOLA 3234 SUNCAI 4013 PROFILAND 3241 SURFRIECH 4013 PRANDON-PRINCE 3242 SYLVANIA 4014 PREMIER 3243 SYMPHONIC 4020 PRINCE 3244 T+A ELECTRO 4421 PROFILAND 3300 TANDERRG 4021 PROLINE 3300 TANDERRG 4021 PROLINE 3300 TANDERRG 4021 PROLINE 3301 TASHIKO 4023 PROTECH 3302 TASHIKO 4023 PROTECH 3302 TASHIKO 4024 PYE 3303 TEAC 4030 QUARTZ 3304 TEC 4031 QUASAR 3310 TECHNISAT 4032 RADIOLA 3311 TECHNISAT 4032 RADIOLA 3312 TEKNIKA 4033 RADIOLA 3312 TEKNIKA 4033 RADIOLA 3312 TEKNIKA 4034 RADIOMARELLI 3313 TELEGOM 4040 RADIOMETTE 4333 TELEGOM 4040 RADIOMETTE 4332 TELECOM 4040 RADIOMETTE 4333 TELECOM 4040 RADIOMETTE 4332 TELECOM 4040 RADIOMETTE 4333 TELECOM 4040 RADIOMETTE 4340 4340 RADIOMETTE 4340	PHILCO	3231	STERN	4004		
PHONOLA 3234 STUDER 4420 PIONEER 3240 STV 4012 PMG 4411 SUNKAI 4013 PORTLAND 3241 SUPERTECH 4013 PRANDONPRINCE 3242 SYLANIA 4014 PREMIER 3243 SYMPHONIC 4020 PRINCE 3244 T+A ELECTRO- 4421 PROPEX 3300 TANDEERG 4021 PROLINE 3300 TANDY 4022 PROSAT 3301 TANDY 4022 PROSAT 3301 TANDERG 4023 PROTECH 3302 TATUNG 4024 PYE 3303 TEAC 4030 QUARTZ 304 TECHNICS 4331 QUASAR 3310 TECHNICS 4331 QUASAR 3311 TECHNICS 4331 QUALE 3311 TECHNICS 4331 QUALE 3311 TECHNICS 4331 RADMOR 4412 TELEAVIA 4034 RADIOMARELLI 3313 TELECOM 4040 RADIOMETTE 4333 TELECOM 4040 RADIOMETTE 4333 TELEFUNKEN 4041 RADK 3320 TELETECH 403 RADM 3321 TELEFON 4042 RANK 3320 TELETECH 4043 RANK 3320 TELETON 4044 RC-1000 3322 TELEVIDEON 4044 RCA 3321 TELEFON 4040 RCA 3322 TELEVIDEON 4044 RCA 3323 TENDSAL 4100 REDIFFUSION 3330 TESSA 4101 REDIFFUSION 3330 TESSA 4101 REDIFFUSION 3331 TELETON 402 RC-1000 3322 TELEVIDEON 4044 RCA 3323 TENDSAL 4101 REDIFFUSION 3330 TESSA 4101 REDIFFUSION 3330 TELETON 4044 RCA 3323 TENDSAL 4101 REDIFFUSION 3330 TELETON 4044 RCA 3323 TENDSAL 4101 REDIFFUSION 3330 TESSA 4101 REDIFFUSION 3330 TESSA 4101 REDIFFUSION 3330 TESSA 4101 REDIFFUSION 3330 TESSA 4101 REDIFFUSION 3331 TELETON 4041 ROADSTAR 3332 TELETON 4044 RCA 3324 TENDSAL 4101 REDIFFUSION 3330 TESSA 4101 REDIFFUSION 3330 TESSA 4101 REDIFFUSION 3330 TESSA 4101 REDIFFUSION 3330 TESSA 4101 REDIFFUSION 3331 TELETON 4114 ROBOTRON 4112 REX 3331 TOTONION 4110 RESIFUSION 4113 ROBOTRON 3331 TELETON 4114 ROBOTRON 3331 TOTONION 4110 ROBOTRON 3331 TELETON 4114 ROBOTRON 4113 ROBOTRON 4114 ROBOTRO	PHILIPS	3232	STRONG	4010		
PIONEER 3240 STV 4012 PMG	PHOENIX	3233	STS	4011		
PMG 4411 SUNKCAI 4013 PORTLAND 3241 SUPERTECH 4013 PRANDONI-PRINCE 3242 SYNLANIA 4014 PREMIER 3243 SYMPHONIC 4020 PRINCE 3244 THE ALECTRO 4421 PROCEX 3300 TANDBERG 4021 PROCEX 3300 TANDBY 4022 PROSAT 3301 TASHIRO 4023 PROTECH 3302 TATUNG 4024 PYE 3303 TEAC 4031 QUARTZ 3304 TEC 4031 QUASAR 3310 TECHNICS 4331 QUELLE 3311 TECHNISAT 4032 RADIONARELU 3313 TECHNISA 4033 RADIONARELU 3313 TELEDAM 4040 RADIONARETE 4333 TELEDAM 4040 RADIONARETE 4333 TELEDAM 4040 RADIONARETE 4333 TELEFON 4041 RADION 3314 TELEMAX 4042 RANK 3200 TELETECH 4043 RADION 3312 TELETON 4044 RCA 3323 TELEFON 4044 RCA 3323 TELEFON 4044 RCA 3323 TELEFON 4044 RCA 3323 TELEFON 4044 RCA 3323 TENDSAL 4100 REALISTIC 324 TENSAL 4101 REDIFFUSION 3330 TESIA 4101 REDIFFUSION 3330 TESIA 4101 REDIFFUSION 3330 TESIA 4101 REDIFFUSION 3331 THORN 4102 REX 3331 THORN 4103 ROBOTRA 3332 TENDSAL 4101 REDIFFUSION 3330 TESIA 4302 RCA 3323 TENDSAL 4101 REDIFFUSION 3330 TESIA 4302 REVOX 4413 THOMSON 4102 REX 3331 THORN 4102 REX 3331 TIORN 4103 ROBOTRA 3332 TENDSAL 4101 ROBOTRA 3333 TOHBBA 4111 ROBOTRON 3334 TIRLON 4122 SALURA 3440 UNITECH 4130 SARAPO 3400 UNITECH 4130 SARAYO 3401 UNITECH 4130 SARAYO 3401 UNITECH 4130 SARAYO 3401 UNITECH 4130 SARAYO 3402 SERICO 3404 UTAX 4243 SANDERS 3411 VEGAVOX 4133 SERICO 3404 UTAX 4243 SANDERS 3411 VEGAVOX 4133 SERICO 3412 VESTEL 4134 SCHNEIDER 3413 VIDION 4112 SEG 3414 VISIONSS 4324 SELECO 3422 WARDS 4134 SELECO 3420 WART RADIO 4200 SHINTON 3430 WAIT RADIO 4201 SHINTON 3430 WAIT RADIO 4201 SHINTON 3430 WAIT RADIO 4201	PHONOLA	3234	STUDER	4420		
PORTLAND PRANDONI-PRINCE 3242 PREMIER PREMIER 3243 SYN/ANIA 4011 PREMIER 3243 PRINCE 3244 PRINCE 3244 PREMIER 3244 T-A ELECTRO- 4421 PROFEX 3300 TANDERG 4021 PROLINE 3300 TANDERG 4021 PROLINE 3300 TANDERG 4022 PROSAT 3301 TASHIKO 4023 PROTECH 3302 PROTECH 3302 TALIUM 4024 PYE 3303 TEAC 4030 QUARTZ 3304 TEC 4031 QUASAR 3310 QUELLE 3311 QUELLE 3311 TECHNICS 4331 QUELLE 3311 TECHNICS 4331 RADIOMARELI 3312 RADIOMARELI 3313 TELEFUNKA 4033 RADIOMARELI 3313 TELEFUNKA 4034 RADIOMARELI 3313 TELEFUNKEN 4041 RADIOMARELI 3331 RELEFOM 4040 RADIOMARELI 3331 RELEFOM 4040 RADIOMORITE 4333 TELEFUNKEN 4041 RADIX RANK 3320 TELETCH 4043 RELETCH 4043 REM 3321 TELETON 4302 RC-1000 3322 TELEVIDEON 4044 RCA RCA 3223 TENSSAL 4100 REALISTIC 3324 TENSSAL 4100 REALISTIC 3324 TENSSAL 4101 REDIFFUSION 3330 TESLA 4302 REVOX 4413 THOMSON 4102 REX 3331 THORN 4104 ROADSTAR 3332 TELET A332 REVOX 4413 THOMSON 4102 REX 3331 THORN 4104 ROADSTAR 3333 TOSHBA 4111 ROBOTRON 3331 TESLA 4302 REVOX 4413 THOMSON 4102 REX 3331 THORN 4104 ROADSTAR 3333 TOSHBA 4111 ROBOTRON 3331 TIRLE A333 TOSHBA 4111 ROBOTRON 3331 TIRLE A334 TIRLE A344 TIRLACL 41114 SABA 3440 UNIVOX 4123 SAMURA 3341 TIRLACL 4114 SABA 3440 UNIVOX 4123 SAMURA 3341 TIRLACL 4114 SABA 3440 UNIVOX 4123 SAMURA 3341 VECAVOX 4133 SAMURA 3342 UNIVOX 4132 SAMURA 3344 UNIVOX 4132 SAMURA 3344 UNIVOX 4133 SCHALLINE A423 SAMURA 3441 VECAVOX 4133 SCHALLINE A424 SCHALLINE A42	PIONEER	3240	STV	4012		
PRANDONI-PRINCE 3242 SYLVANUA 4014 PREMIER 3243 SYMPHONIC 4020 PRINCE 3244 THA ELECTRO 4421 PRODEX 3300 TANDERRG 4021 PRODINE 3300 TANDY 4022 PROSAT 3301 TASHIKO 4023 PROTECH 3302 TATUNG 4024 PYE 3303 TEAC 4031 QUASAR 3310 TECHNICS 4331 QUELLE 3311 TECHNISAT 4032 RADIOLA 3312 TEKNIKA 4033 RADROMOR 4412 TELEAVIA 4034 RADIONETTE 4333 TELECOM 4040 RADIONETTE 4333 TELEFONKEN 4041 RADIO 3321 TELEFONKEN 4042 RADIO 3321 TELEFON 4040 RADIO 3321 TELEFON 4040 RADIO 3324 TENDA 4040	PMG	4411	SUNKAI	4013		
PREMIER 3243 SYMPHONIC 4020 PRINCE 3244 THA ELECTRO 4421 PROFEX 3300 TANDERIG 4021 PROLINE 3300 TANDEY 4022 PROSAT 3301 TASHIKO 4023 PROTECH 3302 TATUNIS 4024 PYE 3303 TEAC 4030 QUASTZ 3304 TEC 4031 QUASAR 3310 TECHNICS 4331 QUELLE 3311 TECHNISAT 4032 RADIOLA 3312 TEKNIKA 4034 RADMOR 4412 TELECHOM 4040 RADIOMARELLI 3313 TELECOM 4040 RADIOMARELI 3313 TELECOM 4041 RADIOMARELI 3313 TELECOM 4041 RADIOMARELI 3313 TELEFONE 4041 RADIOMARIA 3320 TELEMONIA 4042 RADIONIA 3320 TELEFONE 4044	PORTLAND	3241	SUPERTECH	4013		
PRINCE 3244 T-A ELECTRO- 4421 PROFEX 3300 TANDBERG 4021 PROLINE 3300 TANDY 4022 PROSAT 3301 TASHIKO 4023 PROTECH 3302 TASHIKO 4024 PYE 3303 TEAC 4030 QUARTZ 3304 TEC 4031 QUASAR 3310 TECHNICS 4331 QUELE 3311 TECHNICS 4331 QUELE 3311 TECHNICS 4331 RADIOLA 3312 TENIKA 4032 RADIOLA 3312 TENIKA 4033 RADIOMARELL 3313 TELECOM 4040 RADIOMARELL 3313 TELECOM 4040 RADIOMARELL 3314 TELEFUNKEN 4041 RADIOMETTE 4333 TELEFUNKEN 4041 RADIOMETTE 4333 TELEFUNKEN 4041 RADIORETE 4333 TELEFUNKEN 4041 RADIORETE 4333 TELEFOM 4040 REALISTIC 3324 TELEFON 4044 RCA 3322 TELEFUNKEN 4011 REPIFEUSION 3300 TELEFTICH 4043 REALISTIC 3324 TENISAL 4100 REDIFFUSION 3330 TESLA 4302 REVOX 4413 THOMSON 4102 REX 3331 TRILE 4411 ROBOTRON 3333 TOSHIBA 4111 ROBOTRON 3333 TOSHIBA 4111 ROBOTRON 3333 TOSHIBA 4111 ROBOTRON 3333 TOSHIBA 4111 ROBOTRON 3331 TRILACL 4114 SABA 3340 TRILACL 4114 SABA 3341 TRILACL 4114 SABA 3342 UHER 4122 SALORA 3343 UTRAVOX 4123 SAMSUNG 3401 UNIVECH 4130 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER 3411 VICXON 4123 SAMSUNG 3401 UNIVECH 4130 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER 34	PRANDONI-PRINCE	3242	Sylvania	4014		
PROFEX 3300 TANDBERG 4021 PROLINE 3300 TANDBY 4022 PROSAT 3301 TASHIKO 4023 PROTECH 3302 TATUNG 4024 PYE 3303 TEAC 4030 QUARTZ 3304 TEC 4031 QUASAR 3310 TECHNICS 4331 QUELLE 3311 TECHNICS 4331 QUELLE 3311 TECHNICS 4331 RADIOLA 3312 TEKNIKA 4032 RADIOLA 3312 TEKNIKA 4033 RADIOLA 3312 TELEVIA 4034 RADIONETTE 4333 TELEFUNA 4040 RADIONETTE 4333 TELEFUNKEN 4041 RADIONETTE 4333 TELEFUNKEN 4041 RADIX 3314 TELEMAX 4042 RANK 3320 TELETCH 4043 RBM 3321 TELETCH 4043 RC-1000 3322 TELVIDEON 4044 RC-1000 3322 TELVIDEON 4044 RC-1000 3322 TELVIDEON 4044 RC-1000 3323 TENOSAL 4100 REALISTIC 3324 TENOSAL 4100 REALISTIC 3324 TENOSAL 4101 REDIFFUSION 3330 TESLA 4302 REVOX 4413 THORN 4102 REX 3331 THORN 4102 REX 3331 THORN 4102 REX 3331 THORN 4104 ROADSTAR 3333 TOSHBA 4111 ROBOTRON 3333 TOSHBA 41111 ROBOTRON 3333 TOSHBA 41111 ROBOTRON 3333 TOSHBA 4111 ROBOTRON 3333 TOSHBA 4111 ROBOTRON	PREMIER	3243	SYMPHONIC	4020		
PROLINE 3300 TANDY 4022 PROSAT 3301 TASHIKO 4023 PROTECH 3302 TATUNG 4024 PYE 3303 TEC 4031 QUASAR 3304 TEC 4031 QUASAR 3310 TECHNICS 4331 QUELLE 3311 TECHNISAT 4032 RADIOLA 3312 TEKNIKA 4033 RADIOMER 4412 TELEGWIA 4034 RADIOMETTE 4333 TELECOM 4040 RADIONETTE 4333 TELETUREN 4041 RADIONETTE 4333 TELETCH 4043 RADIONETTE 4033 TELETCH 4043 RANK 3320 TELETCH 4043 RBM 3321 TELETCH 4043 RBM 3321 TELETON 4044 RC-1000 3322 TELVIDEON 4044 RCDIFUSION 3330 TESLA 4302 <	PRINCE	3244	T+A ELECTRO-	4421		
PROSAT 3301 TASHIKO 4023 PROTECH 3302 TATUNG 4024 PYE 3303 TEAC 4030 QUASAR 3310 TEC HOLCS 4331 QUELLE 3311 TECHNICS 4331 QUELLE 3312 TEKNIKA 4032 RADMOR 4412 TELEAVIA 4034 RADMOMARELLI 3313 TELECOM 4040 RADIONARELLI 3313 TELEFUNKEN 4041 RADIONARELLI 3314 TELEFUNKEN 4041 RADIONETTE 4333 TELEFUNKEN 4042 RANK 3320 TELEFUNKEN 4042 RC-1000 3322 TELEFON 4042 RC-1000 3322 TELEFUNKON 4044 RCA 3323 TENOSAL 4100 REALISTIC 3324 TENSAI 4101 REDIFIUSION 3330 TESIA 4302 REX 3331 THORN-FERGUSON 4104 <td>PROFEX</td> <td>3300</td> <td>TANDBERG</td> <td></td> <td></td> <td></td>	PROFEX	3300	TANDBERG			
PROTECH 3302 TATUNG 4024 PYE 3303 TEAC 4030 QUANTZ 3304 TEC 4031 QUASAR 3310 TECHNICS 4331 QUELLE 3311 TECHNISAT 4032 RADIOLA 3312 TECHNISAT 4032 RADIOLA 3313 TELEVIVA 4033 RADMOR 4412 TELEVIVA 4034 RADIOMARELLI 3313 TELECOM 4040 RADIONETTE 4333 TELEFUNKEN 4041 RADIONETTE 4333 TELEFUNKEN 4041 RADIX 3314 TELEFUNKEN 4042 RANK 3320 TELETECH 4043 RBM 3321 TELEFON 4302 RC-1000 3322 TELEVIDEON 4044 RCA 3323 TENOSAL 4100 REALISTIC 3324 TENSAL 4101 REDIFFUSION 3330 TESIA 4302 REVOX 4413 THOMSON 4102 REVOX 4413 THOMSON 4102 ROBERTS 3333 TOSHIBA 4111 ROBOTRON 3333 TOSHIBA 4111 ROBOTRON 3333 TOSHIBA 4111 ROBOTRON 3333 TINCHNERGUSON 4110 ROBERTS 3333 TOSHIBA 4111 ROBOTRON 3334 TRIACL 4114 SABA 3340 TRIACL 4		3300	TANDY	4022		
PYE						
QUARTZ 3304 TEC 4031 QUASAR 3310 TECHNICS 4331 QUELE 3311 TECHNISAT 4032 RADIOLA 3312 TEKNIKA 4033 RADIOMARELLI 3313 TELEAVIA 4034 RADIONETTE 4333 TELEFUNKEN 4041 RADIX 3314 TELETON 4002 RANK 3320 TELETECH 4043 RBM 3321 TELETON 4302 RC-1000 3322 TELVDEON 4044 RCA 3323 TENSSAL 4100 REALISTIC 3324 TENSAL 4101 REDIFFUSION 3330 TESLA 4302 REVOX 4413 THOMSON 4102 REX 3331 THORN 4104 RODERTS 3333 TOSHBRA 4111 ROBOSTRON 3333 TOTEVISION 4112 RIF 3334 TRIACL 41144 <						
QUASAR 3310 TECHNICS 4331 QUELLE 3311 TECHNISAT 4032 RADIOLA 3312 TEKNIKA 4033 RADIMOR 4412 TELEAVIA 4034 RADIOMARELLI 3313 TELECOM 4040 RADIONETTE 4333 TELEFUNEN 4041 RADIX 3314 TELEGOM 4042 RANK 3320 TELETCH 4043 RBM 3321 TELETON 4302 RC-1000 3322 TELEVIDEON 4044 RCA 3323 TENOSAL 4100 REALISTIC 3324 TENSAI 4302 REVOX 4413 THOMSON 4102 REX 3331 THORN SON 4104 ROADSTAR 3332 TOSHIBA 4111 ROBERTS 3333 TOTEVISION 4110 ROBOTRON 3333 TOTEVISION 4112 ROWSONIC 4424 TRANS CORTINENS 4113						
QUELLE 3311 TECHNISAT 4032 RADIOLA 3312 TEKNIKA 4033 RADMOR 4412 TELEAVIA 4034 RADIOMARELLI 3313 TELECOM 4040 RADIONETTE 4333 TELETUNKEN 4041 RANK 3320 TELETECH 4043 RBM 3321 TELETON 4302 RC-1000 3322 TELEVIDEON 4044 RCA 3323 TENOSAL 4100 REALISTIC 3324 TENSAI 4101 REVISION 3330 TESLA 4302 REVOX 4413 THORN 4102 REX 3331 THORN 4104 RODADSTAR 3332 THORN-FERGUSON 4110 ROBERTS 3333 TOSHBA 4111 ROBOTRON 3333 TOTEVISION 4112 RADA 3340 TRIAD 4120 SABA 3340 TRIAD 4120						
RADIOLA 3312 TEKNIKA 4033 RADMOR 4412 TELEAVIA 4034 RADIOMARELLI 3313 TELECOM 4040 RADIOMARTELI 3313 TELECOM 4041 RADIX 3314 TELEMAX 4042 RADIX 3314 TELEMAX 4042 RANK 3320 TELETCH 4043 RBM 3321 TELETON 4302 RC-1000 3322 TELEVIDEON 4044 RCA 3323 TENOSAL 4100 REALISTIC 3324 TENSAI 4101 REDIFFUSION 3330 TESLIA 4302 REVOX 4413 THORNON 4102 REX 3331 THORN-FERGUSON 4110 REX 3331 THORN-FERGUSON 4110 ROBERTS 3333 TOTEVISION 4111 ROBERTS 3333 TOTEVISION 4111 ROBERTS 3333 TOTEVISION 4111 ROBERTS 3334 TRACL 4114 SABA 3340 TRIAD 4120 SABA 3340 TRIAD 4120 SABA 3340 TRIAD 4120 SAISHO 3341 TRIUMPH 4121 SAKURA 3342 UHER 4122 SALORA 3343 UITRAVOX 4123 SAMBERS 3344 UNIDEN 4124 SAMPO 3400 UNITED CABLE 4202 SAMSUNG 3401 UNIVECH 4130 SANSUI 3402 UNIVER 4144 SANSUI 3402 UNIVER 4144 SANSUI 3402 UNIVER 4144 SEGO 3414 VISIOPAS 4334 SEG	•					
RADMOR						
RADIOMARELLI 3313 TELECOM 4040 RADIONETTE 4333 TELEFUNKEN 4041 RADIX 3314 TELEMAX 4042 RANK 3320 TELETCH 4043 RBM 3321 TELETON 4302 RC-1000 3322 TELEVIDEON 4044 RCA 3233 TENOSAL 4100 REALISTIC 3324 TENSAI 4101 REDIFFUSION 3330 TESLA 4302 REVOX 4413 THORNON 4102 REX 3331 THORN 4104 ROADSTAR 3332 THORN-FERGUSON 4110 REX 3331 TOFUSION 4110 ROBERTS 3333 TOFUSION 4110 ROBERTS 3333 TOFUSION 4111 TOFUSION 4112 ROWSONIC 4424 TRANS CONTINENS 4113 RTF 3334 TRIACL 4114 SABA 3340 TRIAD 4120 SAISHO 3341 TRIADMPH 4121 SAKURA 3342 UHER 4122 SALORA 3343 UITRAVOX 4123 SAMBERS 3344 UNIDEN 4124 SAMPO 3400 UNITED CABLE 4202 SAMSUNG 3401 UNITED CABLE 4202 SAMSUNG 3401 UNITED CABLE 4202 SAMYO 3403 UNIVOX 4132 SANYO 3403 UNIVOX 4132 SANYO 3403 UNIVOX 4132 SANYO 3403 UNIVOX 4133 SCHAUBLER 3414 VECO 4133 SCHAUBLER 3414 VEGOVOX 4140 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER 3413 VICTOR 4144 SELECO 3422 WARDS 4144 SELECO 3422 WARDS 4144 SELECO 3422 WARDS 4144 SELECO 3424 WAITSON 4200 SHARR 3442 WAITSON 4201 SHORAL 3430 WEGA 4203 SHORAL 3420 WEGA 4203 SHORAL 3420 WEGA 4203 SHORAL 3420 WEGA						
RADIONETTE						
RADIX 3314 TELEMAX 4042 RANK 3320 TELETECH 4043 RBM 3321 TELETON 4302 RC-1000 3322 TELETON 4044 RCA 3323 TENOSAL 4100 REALISTIC 3324 TENSAI 4101 REDIFFUSION 3330 TESLA 4302 REVOX 4413 THOMSON 4102 REX 3331 THORN 4104 ROADSTAR 3332 TOSHIBA 4111 ROBOTRON 3333 TOSHIBA 4111 ROBOTRON 3333 TOSHIBA 4111 ROBOTRON 3333 TOSHIBA 4111 ROBOTRON 3333 TOSHIBA 4111 ROBOTRON 3334 TIRACL 4114 SABA 3340 TRIACL 4114 SABA 3340 TRIACL 4114 SABA 3341 TRIUMPH 4121 SAKURA 3342 UHER 4122 SALORA 3343 ULTRAVOX 4123 SANBERS 3344 UNIDEN 4124 SAMPO 3400 UNITED CABLE 4202 SANSUNG 3401 UNITECH 4130 SANSUNG 3401 UNITECH 4130 SANYO 3403 UNIVOX 4132 SANYO 3403 UNIVOX 4132 SANYO 3403 UNIVOX 4132 SATECO 3404 UTAX 4243 SATECO 3404 UTAX 4243 SATECO 3404 UTAX 4243 SCHABLER 3411 VEGAVOX 4133 SCHABLER 3411 VEGAVOX 4144 SEG 3414 VISIOPASS 4324 SELECO 3422 VARDS 4144 SELECO 3424 VARSON 4200 SHINTOM 3430 WATT RADIO 4201 SHORAI						
RANK 3320 TELETECH 4043 RBM 3321 TELETON 4302 RC-1000 3322 TELEVIDEON 4044 RCA 3323 TENOSAL 4100 REALISTIC 3324 TENSAI 4101 REDIFUSION 3330 TESLA 4302 REVOX 4413 THOMSON 4102 REX 3331 THORN 4104 ROADSTAR 3332 THORN-FERGUSON 4110 ROBERTS 33333 TOSHIBA 4111 ROBOTRON 33333 TOSHIBA 4111 ROBOTRON 33333 TOSHIBA 4114 SABA 3340 TRIACL 4114 SABA 3340 TRIAD 4120 SAISHO 3341 TRIMPH 4121 SAKURA 3342 UHER 4122 SALORA 3343 ULTRAVOX 4123 SAMBERS 3344 UNIDEN 4124 SAMPO						
RBM 3321 TELETON 4302 RC-1000 3322 TELEVIDEON 4044 RCA 3323 TELEVIDEON 4044 RCA 3323 TENOSAL 4100 REALISTIC 3324 TENSAI 4101 REDIFFUSION 3330 TESLA 4302 REVOX 4413 THOMSON 4102 REX 3331 THORN 4104 ROADSTAR 3332 THORN-FERGUSON 4110 ROBERTS 3333 TOSHIBA 4111 ROBERTS 3333 TOSHIBA 4111 ROBOTRON 3333 TOTEVISION 4112 ROWSONIC 4424 TRANS CONTINENS 4113 RTF 3334 TRIACL 4114 SABA 3340 TRIAD 4120 SAISHO 3341 TRIUMPH 4121 SAKURA 3342 UHER 4122 SALORA 3343 UITRAVOX 4123 SAMBERS 3344 UNIDEN 4124 SAMPO 3400 UNITED CABLE 4202 SAMSUNG 3401 UNITEC CH 4130 SANSUI 3402 UNIVERSUM 4131 SANYO 3403 UNIVOX 4132 SANYO 3403 UNIVOX 4132 SATECO 3404 UTAX 4243 SATECO 3404 UTAX 4243 SCHABLORENZ 3412 VESTEL 4134 SCHABLORENZ 3412 VESTEL 4134 SCHABLORENZ 3412 VESTEL 4134 SCHABLORENZ 3411 VEGAVOX 4123 SCHABLORENZ 3412 VESTEL 4134 SCHABLORENZ 3412 VESTEL 4134 SCHABLORENZ 3412 VESTEL 4134 SCHABLORENZ 3411 VIDION 4140 SCHABLORENZ 3412 VESTEL 4134 SCHABLORENZ 3412 VESTEL 4134 SCHABLORENZ 3411 VIDION 4140 SCHABLORENZ 3412 VOXSON 4143 SEB 3414 VISIOPASS 3224 SEI 3420 VORTEC 4142 SELECO 3422 WARDS 4144 SELECO 3422 WARDS 4144 SELECO 3422 WARDS 4144 SENDRAL 3430 WEGA 4203						
RC-1000 3322 TELEVIDEON 4044 RCA 3323 TENOSAL 4100 REALISTIC 3324 TENSAI 4101 REDIFFUSION 3330 TESLA 4302 REVOX 4413 THOMSON 4102 REX 3331 THORN 4104 ROADSTAR 3332 THORN-FERGUSON 4110 ROBERTS 3333 TOSHIBA 4111 ROBOTRON 3333 TOTEVISION 4112 ROWSONIC 4424 TRANS CONTINENS 4113 RTF 3334 TRIACL 4114 SABA 3340 TRIAD 4120 SAISHO 3341 TRIUMPH 4121 SAKURA 3342 UHER 4122 SALORA 3343 ULTRAVOX 4123 SAMBERS 3344 UNIDEN 4124 SAMFO 3400 UNITEC CABLE 4202 SAMSUI 3402 UNIVERSUM 4131 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td></tr<>						
RCA 3323 TENOSAL 4100 REALISTIC 3324 TENSAI 4101 REDIFFUSION 3330 TESLA 4302 REVOX 4413 THOMSON 4102 REX 3331 THORN 4104 ROADSTAR 3332 THORN-FERGUSON 4110 ROBERTS 3333 TOSHIBA 4111 ROBOTRON 3333 TOSHIBA 4111 ROBOTRON 3333 TOSHIBA 4111 ROWSONIC 4424 TRANS CONTINENS 4113 RTF 3334 TRIACL 4114 SABA 3340 TRIAD 4120 SAISHO 3341 TRIUMPH 4121 SAKURA 3342 UHER 4122 SALORA 3343 ULTRAVOX 4123 SAMBERS 3344 UNIDEN 4124 SAMBERS 3344 UNIDEN 4124 SAMPO 3400 UNITED CABLE 4202 SAMSUNG 3401 UNITECH 4130 SANSUI 3402 UNIVERSUM 4131 SANYO 3403 UNIVOX 4132 SATECO 3404 UTAX 4243 SATPROTINER 3411 VEGAVOX 4133 SATECO 4133 SAPPONTER 3411 VEGAVOX 4133 SAPPONTER 3411 VEGOVOX 4133 SCHAUBLORENZ 3412 VESTEL 4134 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER 3413 VIDION 4140 SCHNEIDER 3411 VEGOVOX 4131 SEG 3414 VISIOPASS 4324 SEI 3420 VORTEC 4142 SELECO 3422 WARDS 4144 SELECO 3422 WARDS 4144 SHARP 3424 WATSON 4200 SHORAL						
REALISTIC 3324 TENSAI 4101 REDIFFUSION 3330 TESLA 4302 REVOX 4413 THOMSON 4102 REX 3331 THORN 4104 ROADSTAR 3332 THORN-FERGUSON 4110 ROBERTS 3333 TOSHIBA 4111 ROBOTRON 3333 TOTEVISION 4112 ROWSONIC 4424 TRANS CONTINENS 4113 RTF 3334 TRIACL 4114 SABA 3340 TRIAD 4120 SAISHO 3341 TRIUMPH 4121 SAKURA 3342 UHER 4122 SALORA 3343 ULTRAVOX 4123 SAMBERS 3344 UNIDEN 4124 SAMPO 3400 UNITEC CABLE 4202 SAMSUNG 3401 UNITECH 4130 SANYO 3403 UNIVOX 4131 SANYO 3403 UNIVOX 4132						
REDIFFUSION 3330 TESLA 4302 REVOX 4413 THOMSON 4102 REX 3331 THORN 4104 ROADSTAR 3332 THORN-FERGUSON 4110 ROBERTS 3333 TOSHIBA 4111 ROBOTRON 3333 TOTEVISION 4112 ROWSONIC 4424 TRANS CONTINENS 4113 RTF 3334 TRIACL 4114 SABA 3340 TRIAD 4120 SAISHO 3341 TRIUMPH 4121 SAKURA 3342 UHER 4122 SALORA 3343 ULITAVOX 4123 SAIMBERS 3344 UNIDEN 4124 SAMPO 3400 UNITEC CABLE 4202 SAMSUIG 3401 UNITECH 4130 SANSUI 3402 UNIVERSUM 4131 SANYO 3403 UNIVOX 4132 SATECO 3404 UTAX 4243						
REVOX 4413 THOMSON 4102 REX 3331 THORN 4104 ROADSTAR 3332 THORN-FERGUSON 4110 ROBERTS 3333 TOSHIBA 4111 ROBOTRON 3333 TOTEVISION 4112 ROWSONIC 4424 TRANS CONTINENS 4113 RTF 3334 TRIACL 4114 SABA 3340 TRIAD 4120 SAISHO 3341 TRIUMPH 4121 SAKURA 3342 UHER 4122 SALORA 3343 ULTRAVOX 4123 SAMBERS 3344 UNIDEN 4124 SAMPO 3400 UNITEC CABLE 4202 SAMSUNG 3401 UNITEC CABLE 4202 SANSUI 3402 UNIVERSUM 4131 SANYO 3403 UNIVOX 4132 SATECO 3404 UNIX 4243 SATPROTNER 3410 VECO 4133						
REX 3331 THORN 4104 ROADSTAR 3332 THORN-FERGUSON 4110 ROBERTS 3333 TOSHIBA 4111 ROBOTRON 3333 TOSHIBA 4112 ROWSONIC 4424 TRANS CONTINENS 4113 RTF 3334 TRIACL 4114 SABA 3340 TRIAD 4120 SAISHO 3341 TRIMPH 4121 SAKURA 3342 UHER 4122 SALORA 3343 ULTRAVOX 4123 SAMBERS 3344 UNIDEN 4124 SAIMPO 3400 UNITEC CABLE 4202 SANSUI 3402 UNIVERSUM 4130 SANYO 3403 UNIVOX 4132 SATECO 3404 UTAX 4243 SATECO 3404 UTAX 4243 SAPROTINER 3410 VEGOVOX 4133 SCHAUB LORENZ 3411 VEGAVOX 4133						
ROADSTAR 3332 THORN-FERGUSON 4110 ROBERTS 3333 TOSHIBA 4111 ROBOTRON 3333 TOTEVISION 4112 ROWSONIC 4424 TRANS CONTINENS 4113 RTF 3334 TRIACL 4114 SABA 3340 TRIAD 4120 SAISHO 3341 TRIUMPH 4121 SAKURA 3342 UHER 4122 SALORA 3343 UITRAVOX 4123 SAMBERS 3344 UNIDEN 4124 SAMPO 3400 UNITED CABLE 4202 SAMSUNG 3401 UNIVERSUM 4131 SANYO 3403 UNIVOX 4133 SANYO 3403 UNIVOX 4133 SATPROTNER 3410 VECO 4133 SCHAUB LORENZ 3412 VESTEL 4134 SCHAUB LORENZ 3412 VESTEL 4140 SCHNEIDER 3413 VICTOR 4140 <						
ROBERTS 3333 TOSHIBA 4111 ROBOTRON 3333 TOTEVISION 4112 ROWSONIC 4424 TRANS CONTINENS 4113 RTF 3334 TRIACL 4114 SABA 3340 TRIAD 4120 SAISHO 3341 TRIUMPH 4121 SAKURA 3342 UHER 4122 SALORA 3343 UITRAVOX 4123 SAIMBERS 3344 UNIDEN 4124 SAMPO 3400 UNITEC ABLE 4202 SAMSUIG 3401 UNIVERSUM 4131 SANSUI 3402 UNIVERSUM 4131 SANYO 3403 UNIVOX 4132 SATECO 3404 UTAX 4243 SATEROTNER 3410 VECO 4133 SBR 3411 VEGAVOX 4133 SCHAUB LORENZ 3412 VESTEL 4134 SCHNEIDER 3413 VICTOR 4140						
ROBOTRON 3333 TOTEVISION 4112 ROWSONIC 4424 TRANS CONTINENS 4113 RTF 3334 TRIACL 4114 SABA 3340 TRIAD 4120 SAISHO 3341 TRIUMPH 4121 SAKURA 3342 UHER 4122 SALORA 3343 ULTRAVOX 4123 SAMBERS 3344 UNIDEN 4124 SAMPO 3400 UNITEC CABLE 4202 SAMSUNG 3401 UNITECH 4130 SANSUI 3402 UNIVERSUM 4131 SANYO 3403 UNIVOX 4132 SATECO 3404 UTAX 4243 SATEROTNER 3410 VECO 4133 SBR 3411 VEGAVOX 4133 SCHAUB LORENZ 3412 VESTEL 4134 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER 3413 VICTOR 4140						
ROWSONIC 4424 TRANS CONTINENS 4113 RTF 3334 TRIACL 4114 SABA 3340 TRIAD 4120 SAISHO 3341 TRIMPH 4121 SAKURA 3342 UHER 4122 SALORA 3343 ULTRAVOX 4123 SAMBERS 3344 UNIDEN 4124 SAMPO 3400 UNITEC CABLE 4202 SAMSUNG 3401 UNITECH 4130 SANSUI 3402 UNIVERSUM 4131 SANYO 3403 UNIVOX 4132 SATECO 3404 UTAX 4243 SATECO 3404 UTAX 4243 SAR 3411 VEGOVOX 4133 SCHAUB LORENZ 3412 VESTEL 4134 SCHAUB LORENZ 3412 VESTEL 4134 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER 3413 VICTOR 4140						
RTF 3334 TRIACL 4114 SABA 3340 TRIAD 4120 SAISHO 3341 TRIMPH 4121 SAKURA 3342 UHER 4122 SALORA 3343 ULTRAVOX 4123 SAMBERS 3344 UNIDEN 4124 SAMPO 3400 UNITED CABLE 4202 SANSUNG 3401 UNITECH 4130 SANSUI 3402 UNIVERSUM 4131 SANYO 3403 UNIVOX 4132 SATECO 3404 UTAX 4243 SATPROTINER 3410 VECO 4133 SCHAUB LORENZ 3412 VESTEL 4134 SCHAUB LORENZ 3412 VESTEL 4134 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER 3413 VICTOR 4140 SCHNIEDER F 3413 VIDIO WAY 4141 SEG 3414 VISIOPASS 4324						
SABA 3340 TRIAD 4120 SAISHO 3341 TRIUMPH 4121 SAKURA 3342 UHER 4122 SALORA 3343 ULTRAVOX 4123 SAMBERS 3344 UNIDEN 4124 SAMPO 3400 UNITED CABLE 4202 SAMSUNG 3401 UNITECH 4130 SANYO 3403 UNIVOX 4131 SANYO 3403 UNIVOX 4132 SATECO 3404 UTAX 4243 SATPROTNER 3410 VECO 4133 SCHAUB LORENZ 3411 VEGAVOX 4133 SCHAUB LORENZ 3412 VESTEL 4134 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER F 3413 VIDION 4140 SCIEN TIFIC ATLANTA 4231 VIDIO WAY 4141 SEG 3414 VISOPASS 4324						
SAISHO 3341 TRIUMPH 4121 SAKURA 3342 UHER 4122 SALORA 3343 ULITAVOX 4123 SAMBERS 3344 UNIDEN 4124 SAMPO 3400 UNITEC ABLE 4202 SAMSUNG 3401 UNITECH 4130 SANSUI 3402 UNIVERSUM 4131 SANYO 3403 UNIVOX 4132 SATECO 3404 UTAX 4243 SATPROTNER 3410 VECO 4133 SBR 3411 VEGAVOX 4133 SCHABL BLORENZ 3412 VESTEL 4134 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER F 3413 VIDION 4140 SCIEN TIFIC ATLANTA 4231 VIDIO WAY 4141 SEG 3420 VORTEC 4142 SEI 3420 VORTEC 4142						
SALORA 3343 ULTRAVOX 4123 SAMBERS 3344 UNIDEN 4124 SAMPO 3400 UNITEC ABLE 4202 SAMSUNG 3401 UNITECH 4130 SANSUI 3402 UNIVOX 4131 SANYO 3403 UNIVOX 4132 SATECO 3404 UTAX 4243 SATPROTNER 3410 VECO 4133 SBR 3411 VEGAVOX 4133 SCHAUB LORENZ 3412 VESTEL 4134 SCHAUB LORENZ 3412 VESTEL 4134 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER 3413 VIDION 4140 SCIEN TIFIC ATLANTA 4231 VIDIO WAY 4141 SEG 3414 VISIOPASS 4324 SEI 3420 VORTEC 4142 SELECO 3422 WARDS 4144 SENTRA 3423 WALTHAIM 4200 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
SAMBERS 3344 UNIDEN 4124 SAMPO 3400 UNITED CABLE 4202 SAMSUNG 3401 UNITECH 4130 SANSUI 3402 UNIVERSUM 4131 SANYO 3403 UNIVOX 4132 SATECO 3404 UTAX 4243 SATPROTNER 3410 VECO 4133 SBR 3411 VEGAVOX 4133 SCHAUB LORENZ 3412 VESTEL 4134 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER 3413 VIDION 4140 SCHNEIDER F 3413 VIDIO WAY 4141 SEG 3414 VISIOPASS 4324 SEI 3420 VORTEC 4142 SEI-SINUDYNE 3421 VOXSON 4143 SELECO 3422 WARDS 4144 SENTRA 3423 WALTHAM 4200 SHARP 3424 WATSON 4200	SAKURA	3342	UHER	4122		
SAMPO 3400 UNITED CABLE 4202 SAMSUNG 3401 UNITECH 4130 SANSUI 3402 UNIVERSUM 4131 SANYO 3403 UNIVOX 4132 SATECO 3404 UTAX 4243 SATPROTNER 3410 VECO 4133 SBR 3411 VEGAVOX 4133 SCHAUB LORENZ 3412 VESTEL 4134 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER F 3413 VIDION 4140 SCIEN TIFIC ATLANTA 4231 VIDIO WAY 4141 SEG 3414 VISIOPASS 4324 SEI 3420 VORTEC 4142 SELSINUDYNE 3421 VOXSON 4143 SELECO 3422 WARDS 4144 SENTRA 3423 WALTHAIM 4200 SHARP 3424 WATSON 4200 SHINTOM 3430 WATT RADIO 4201	SALORA	3343	ULTRAVOX	4123		
SAMPO 3400 UNITED CABLE 4202 SAMSUNG 3401 UNITECH 4130 SANSUI 3402 UNIVERSUM 4131 SANYO 3403 UNIVOX 4132 SATECO 3404 UTAX 4243 SATPROTNER 3410 VECO 4133 SBR 3411 VEGAVOX 4133 SCHAUB LORENZ 3412 VESTEL 4134 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER F 3413 VIDION 4140 SCIEN TIFIC ATLANTA 4231 VIDIO WAY 4141 SEG 3414 VISIOPASS 4324 SEI 3420 VORTEC 4142 SELSINUDYNE 3421 VOXSON 4143 SELECO 3422 WARDS 4144 SENTRA 3423 WALTHAIM 4200 SHARP 3424 WATSON 4200 SHINTOM 3430 WATT RADIO 4201						
SANSUI 3402 UNIVERSUM 4131 SANYO 3403 UNIVOX 4132 SATECO 3404 UTAX 4243 SATPROTNER 3410 VECO 4133 SBR 3411 VEGAVOX 4133 SCHAUB LORENZ 3412 VESTEL 4134 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER F 3413 VIDION 4140 SCIEN TIFIC ATLANTA 4231 VIDIO WAY 4141 SEG 3414 VISIOPASS 4324 SEI 3420 VORTEC 4142 SELSINUDYNE 3421 VOXSON 4143 SELECO 3422 WARDS 4144 SENTRA 3423 WALTHAM 4200 SHARP 3424 WATSON 4200 SHINTOM 3430 WATR RADIO 4201 SHORAI 3430 WEGA 4203	SAMPO	3400	UNITED CABLE	4202		
SANYO 3403 UNIVOX 4132 SATECO 3404 UTAX 4243 SATPROTNER 3410 VECO 4133 SBR 3411 VEGAVOX 4133 SCHAUB LORENZ 3412 VESTEL 4134 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER F 3413 VIDION 4140 SCIEN TIFIC ATLANTA 4231 VIDIO WAY 4141 SEG 3414 VISIOPASS 4324 SEI 3420 VORTEC 4142 SEI-SINUDYNE 3421 VOXSON 4143 SELECO 3422 WARDS 4144 SENTRA 3423 WAITHAM 4200 SHARP 3424 WATSON 4200 SHINTOM 3430 WEGA 4203	SAMSUNG	3401	UNITECH	4130		
SATECO 3404 UTAX 4243 SATPROTNER 3410 VECO 4133 SBR 3411 VEGAVOX 4133 SCHAUB LORENZ 3412 VESTEL 4134 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER F 3413 VIDION 4140 SCIEN TIFIC ATLANTA 4231 VIDIO WAY 4141 SEG 3414 VISIOPASS 4324 SEI 3420 VORTEC 4142 SEI-SINUDYNE 3421 VOXSON 4143 SELECO 3422 WARDS 4144 SENTRA 3423 WALTHAM 4200 SHARP 3424 WATSON 4200 SHINTOM 3430 WATT RADIO 4201 SHORAI 3430 WEGA 4203	SANSUI	3402	UNIVERSUM	4131		
SATPROTNER 3410 VECO 4133 SBR 3411 VEGAVOX 4133 SCHAUB LORENZ 3412 VESTEL 4134 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER F 3413 VIDION 4140 SCIEN TIFIC ATLANTA 4231 VIDIO WAY 4141 SEG 3414 VISIOPASS 4324 SEI 3420 VORTEC 4142 SEI-SINUDYNE 3421 VOXSON 4143 SELECO 3422 WARDS 4144 SENTRA 3423 WALTHAM 4200 SHARP 3424 WATSON 4200 SHINTOM 3430 WATT RADIO 4201 SHORAI 3430 WEGA 4203	SANYO	3403	UNIVOX	4132		
SBR 3411 VEGAVOX 4133 SCHAUB LORENZ 3412 VESTEL 4134 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER F 3413 VIDION 4140 SCIEN TIFIC ATLANTA 4231 VIDIO WAY 4141 SEG 3414 VISIOPASS 4324 SEI 3420 VORTEC 4142 SEI-SINUDYNE 3421 VOXSON 4143 SELECO 3422 WARDS 4144 SENTRA 3423 WALTHAM 4200 SHARP 3424 WATSON 4200 SHINTOM 3430 WAT RADIO 4201 SHORAI 3430 WEGA 4203	SATECO	3404	UTAX	4243		
SCHAUB LORENZ 3412 VESTEL 4134 SCHNEIDER 3413 VICTOR 4140 SCHNEIDER F 3413 VIDION 4140 SCIEN TIFIC ATLANTA 4231 VIDIO WAY 4141 SEG 3414 VISIOPASS 4324 SEI 3420 VORTEC 4142 SEI-SINUDYNE 3421 VOXSON 4143 SELECO 3422 WARDS 4144 SENTRA 3423 WALTHAM 4200 SHARP 3424 WATSON 4200 SHINTOM 3430 WATT RADIO 4201 SHORAI 3430 WEGA 4203	SATPROTNER	3410	VECO	4133		
SCHNEIDER 3413 VICTOR 4140 SCHNEIDER F 3413 VIDION 4140 SCIEN TIFIC ATLANTA 4231 VIDIO WAY 4141 SEG 3414 VISIOPASS 4324 SEI 3420 VORTEC 4142 SEI-SINUDYNE 3421 VOXSON 4143 SELECO 3422 WARDS 4144 SENTRA 3423 WALTHAM 4200 SHARP 3424 WATSON 4200 SHINTOM 3430 WATT RADIO 4201 SHORAI 3430 WEGA 4203						
SCHNEIDER F 3413 VIDION 4140 SCIEN TIFIC ATLANTA 4231 VIDIO WAY 4141 SEG 3414 VISIOPASS 4324 SEI 3420 VORTEC 4142 SEI-SINUDYNE 3421 VOXSON 4143 SELECO 3422 WARDS 4144 SENTRA 3423 WALTHAIM 4200 SHARP 3424 WATSON 4200 SHINTOM 3430 WAIT RADIO 4201 SHORAI 3430 WEGA 4203						
SCIEN TIFIC ATLANTA 4231 VIDIO WAY 4141 SEG 3414 VISIOPASS 4324 SEI 3420 VORTEC 4142 SEI-SINUDYNE 3421 VOXSON 4143 SELECO 3422 WARDS 4144 SENTRA 3423 WALTHAM 4200 SHARP 3424 WATSON 4200 SHINTOM 3430 WATT RADIO 4201 SHORAI 3430 WEGA 4203						
SEG 3414 VISIOPASS 4324 SEI 3420 VORTEC 4142 SEI-SINUDYNE 3421 VOXSON 4143 SELECO 3422 WARDS 4144 SENTRA 3423 WALTHAM 4200 SHARP 3424 WATSON 4200 SHINTOM 3430 WATT RADIO 4201 SHORAI 3430 WEGA 4203						
SEI 3420 VORTEC 4142 SEI-SINUDYNE 3421 VOXSON 4143 SELECO 3422 WARDS 4144 SENTRA 3423 WALTHAM 4200 SHARP 3424 WATSON 4200 SHINTOM 3430 WATT RADIO 4201 SHORAI 3430 WEGA 4203						
SELSINUDYNE 3421 VOXSON 4143 SELECO 3422 WARDS 4144 SENTRA 3423 WALTHAM 4200 SHARP 3424 WATSON 4200 SHINTOM 3430 WATT RADIO 4201 SHORAI 3430 WEGA 4203						
SELECO 3422 WARDS 4144 SENTRA 3423 WALTHAM 4200 SHARP 3424 WATSON 4200 SHINTOM 3430 WATT RADIO 4201 SHORAI 3430 WEGA 4203						
SENTRA 3423 WALTHAM 4200 SHARP 3424 WATSON 4200 SHINTOM 3430 WATT RADIO 4201 SHORAI 3430 WEGA 4203						
SHARP 3424 WATSON 4200 SHINTOM 3430 WATT RADIO 4201 SHORAI 3430 WEGA 4203						
SHINTOM 3430 WATT RADIO 4201 SHORAI 3430 WEGA 4203						
SHORAI 3430 WEGA 4203						
SIANEIVI 5431 VVEGA CULUK 4204						
	JIANEIVI	3431	WEGA CULUK	4204		



©2001 NAD ELECTRONICS INTERNATIONAL

All rights reserved. No part of this publication may be reproduced, stored or transmitted in any form without the written permission of NAD Electronics International

HTR-1 Manual 04/01 Printed in Hong Kong